

MATERIAL SAFETY DATA SHEET  
TRIM® E206

APPROVED  
JAN 18 2002  
DAVID FISHER

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name TRIM® E206  
Material type Water miscible cutting and grinding fluid concentrate  
Classification/synonym(s) Chemical emulsion/Soluble oil  
Product use Coolant and lubricant in metal removal processes  
Manufacturer address MASTER CHEMICAL CORPORATION  
501 West Boundary  
Perrysburg, OH 43551-1263  
Emergency telephone 419-874-7902      Fax number 419-874-0684

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOM.	CAS #	%RANGE
petroleum oil	5 mg/m <sup>3</sup> (mist)	5 mg/m <sup>3</sup> (mist)	none	8002-05-9	40-50
atty acid	none	none	none	68990-37-4	10-20
chlorinated alkene polymer	none	none	none	68410-99-1	10-20
sodium sulfonate	none	none	none	61789-85-3	1-10
nonionic surfactant	none	none	none	68991-48-0	1-10
propylene glycol ether	none	none	none	68603-15-6	1-10
aromatic alcohol	none	none	none	68603-15-6	1-10
amine carboxylate	none	none	none	63231-48-1	1-10
triethanolamine	none	5 mg/m <sup>3</sup>	none	102-71-6	1-10
borate	none	none	none	10043-35-3	1-10
amino alcohol	none	none	none	96-20-8	1-10
water	none	none	none	7732-18-5	balance

The exact chemical identities and percentages of the raw materials used in TRIM® E206 are trade secrets. This information is being withheld as provided for in the Occupational Safety and Health Administration's Hazard Communication Rule (29 CFR 1910.1200).

3. HAZARDS IDENTIFICATION

Emergency overview Blue liquid  
No immediate hazard  
Fire may produce oxides of carbon, nitrogen, and sulfur

#### POTENTIAL HEALTH EFFECTS

<b>Acute effects of overexposure</b>	Eye Contact Skin Contact Inhalation Ingestion Skin Absorption	Transient irritation Possible defatting, nonirritant, nonsensitizer Nontoxic Nontoxic Nontoxic
<b>Chronic effects of overexposure</b>	None currently known	
<b>Product/Ingredients listed as carcinogen or potential carcinogen?</b>		NTP Annual Report No IARC Monographs No OSHA No
<b>Signs and symptoms of exposure</b>	None	
<b>Medical conditions generally aggravated by exposure</b>	None known	

#### 4. FIRST AID MEASURES

<b>Emergency and first aid procedures</b>	Eyes  Skin  Inhalation  Ingestion	Flush immediately with cool, clean water for at least 15 minutes  Wash with mild soap and warm water  Remove to fresh air  If large quantities are ingested, contact a physician
In every case get medical attention as required		

#### 5. FIRE FIGHTING MEASURES

<b>Flash point (test method)</b>	>230°F (>110°C) (CCC) >212°F (>100°C) (COC)	<b>Flammable limits</b> Not determined
<b>Extinguishing media</b>	As appropriate for the surrounding fire: water (flood with water), dry chemical, CO <sub>2</sub> or "alcohol" foam	
<b>Special fire fighting procedures</b>	None	<b>Unusual fire and explosion hazards</b> None

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Steps to be taken if material is released or spilled</b>	Mop up or use dry absorbent
---	-----------------------------

## HANDLING AND STORAGE

### **Precautions to be taken in handling and storing**

Avoid contact with eyes. Avoid prolonged or repeated skin contact with the concentrate. Wash thoroughly after handling. Do not swallow.

### **Other precautions**

Refer to Data and Information Sheet or container labels.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Respiratory protection (Specify type)**

None

### **Ventilation**

Local exhaust	Not normally required
Mechanical (General)	General room ventilation should be sufficient
Special	None
Other	None

### **Protective gloves**

None

### **Other protective equipment**

None

### **Eye protection**

Safety glasses

### **Exposure limits**

None established by ACGIH or OSHA for product as whole  
Refer to Section 2

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Blue liquid
<b>Odor</b>	Mild odor
<b>pH of concentrate</b>	8.6
<b>pH of freshly mixed emulsion with demineralized water at 10%</b>	9.1
<b>Vapor pressure (psi)</b>	<1
<b>Vapor density (Air=1)</b>	Not determined
<b>Boiling point (at 760 mm Hg)</b>	212°F (100°C)
<b>Freezing point</b>	Not applicable
<b>Solubility in water</b>	100%
<b>Specific gravity (H<sub>2</sub>O=1)</b>	0.99
<b>Percent volatile by volume</b>	14.29%
<b>Evaporation rate (butyl acetate=1)</b>	1

#### 10. STABILITY AND REACTIVITY

Stability	Stable	Conditions to avoid	None
Incompatibility (materials to avoid)	Strong oxidizers, acids and alkalis		
Hazardous combustion or decomposition products	Thermal decomposition (fire) may produce oxides of carbon, nitrogen, and sulfur		
Hazardous polymerization	Will not occur	Conditions to avoid	None

#### 11. TOXICOLOGICAL INFORMATION

Study	Test Animal	Concentrate	Results	10% Solution
Acute inhalation toxicity	Rat	---	nontoxic $LC_{50}>204\text{mg/l}$	
Acute oral toxicity	Rat	nontoxic $LD_{50}>5\text{g/kg}$	nontoxic	
Acute dermal toxicity	Rabbit	nontoxic $LD_{50}>2000\text{mg/kg}$	nontoxic	
Primary skin irritation	Rabbit	irritant PDI index>6.33	nonirritant PDI index=1.88	
Primary eye irritation	Rabbit	irritant	nonirritant	

#### 12. ECOLOGICAL INFORMATION

No data available

#### 13. DISPOSAL CONSIDERATIONS

**Waste disposal method** Must comply with local, state and federal regulations. If pre-treatment is needed, chemical treatment or ultrafiltration may be used. Contact Master Chemical Tech Line (1-800-537-3365) for assistance.

#### 14. TRANSPORT INFORMATION

**Department of Transportation** DOT Hazard Class: None  
TRIM® E206 is not classified as a hazardous material by DOT.

#### REGULATORY INFORMATION

<b>Resource Conservation and Recovery Act</b>	Number(s): None EPA Hazardous Waste Listed as a hazardous waste by EPA. TRIM® E206 is not classified.
<b>Toxic Substances Control Act</b>	All TRIM® E206 ingredients are listed on the TSCA Inventory of Chemical Substances.
<b>Superfund Amendments and Reauthorization Act of 1986</b>	Contain any Section 302/304 Extremely Hazardous Substances or S TRIM® E206 does not contain 313 Toxic Chemicals.

#### 16. OTHER INFORMATION

HMIS Hazard Index	Concen-	NFPA RATING	
		trate	
(Health)	H = 1		H = 1
(Fire)	F = 1		F = 1
(Reactivity)	R = 0		R = 0
(Personal Protection)	PP = A (safety glasses)		Special hazards = none
		Solution	
		Typical Working Conditions	
		H = 1	
		F = 0	
		R = 0	
		PP = A (safety glasses)	Special hazards = none

Key 0 = minimal 1 = slight 2 = moderate 3 = serious based in the particular system.  
This information is intended solely for the use of individuals trained in the use of this material.

TRIM® is a registered trademark of Master Chemical Corporation.  
(C) 1997 Master Chemical Corporation.

The information herein is given in good faith and believed current as of the date of this MSDS. Because conditions of use are beyond our control, no guarantee, representation or warranty expressed or implied is made. Consult Master Chemical Corporation for further information.

Date of preparation May 1998